## PATENT COOPERATION TREATY

From the INTERNATIONAL SEARCHING AUTHORITY	PCT			
To: GLAXOSMITHKLINE Attn. Giddings, Peter John 980 Great West Road Brentford, Essex TW8 9GS UNITED KINGDOM	NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL SEARCH REPORT AND THE WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY, OR THE DECLARATION			
	(PCT Rule 44.1)			
	Date of mailing (day/month/year) 05/04/2005			
Applicant's or agent's file reference				
APV/PB60599	FOR FURTHER ACTION See paragraphs 1 and 4 below			
International application No.	International filing date			
PCT/EP2004/013666	(day/month/year) 30/e1/2084			
Applicant	Corporate IP			
GLAXO GROUP LIMITED	Received BAENTFORD			
	14 APR 2005			
1. $X$ The applicant is hereby notified that the international search Authority have been established and are transmitted herewite	report and the written opinion of the International Searching			
Filling of amendments and statement under Article 19: The applicant is entitled, if he so wishes, to amend the claim	is of the International Application (See Bills 180 AT 60 541/4/6			
•	details, see the notes on the accompanying sheet.			
Where? Directly to the International Bureau of WIPO, 34 1211 Geneva 20, Switzerland, Fa	scimile No.; (41–22) 740.14.35			
For more detailed instructions, see the notes on the accordance	· -			
The applicant is hereby notified that no international search     Article 17(2)(a) to that effect and the written opinion of the in	report will be established and that the declaration under ternational Searching Authority are transmitted herewith.			
With regard to the protest against payment of (an) additio	nal fee(s) under Rule 40.2, the applicant is notified that:			
the protest together with the decision thereon has been transmitted to the International Bureau together with the applicant's request to forward the texts of both the protest and the decision thereon to the designated Offices.				
no decialon has been made yet on the protest; the app	licant will be notified as soon as a decision is made.			
4. Reminders  Shortly after the expiration of 18 months from the priority date, the international Bureau. If the applicant wishes to avoid or postpone application, or of the priority claim, must reach the international Bureau.	publication, a notice of withdrawal of the international			
before the completion of the technical preparations for internation	al publication.			
The applicant may submit comments on an informal basis on the international Bureau. The International Bureau will send a copy of international preliminary examination report has been or is to be either public but not before the expiration of 30 months from the prior.	such comments to all designated Offices unless an stablished. These comments would also be made available to			
Within 19 months from the priority date, but only in respect of son examination must be filed if the applicant wishes to postpone the date (in some Offices even later); otherwise, the applicant must, waste for entry into the national phase before those designated Offices.	entry Into the national phase until 30 months from the priority If thin 20 months from the priority date, perform the prescribed			
in respect of other designated Offices, the time limit of 30 months months.	(or later) will apply even if no demand is filed within 19			
See the Annex to Form PCT/IB/301 and, for details about the appl Gulde, Volume II. National Chapters and the WIPO Internet site.	licable time limits, Office by Office, see the PCT Applicant's			

Name and mailing address of the International Searching Authority

European Patent Office, P.B. 5818 Patentlaan 2 NL-2290 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016

Authorized officer

Natalia Morancho Alcaine

### NOTES TO FORM PCT/ISA/220

These Notes are intended to give the basic instructions concerning the filing of amendments under article 19. The Notes are based on the requirements of the Patent Cooperation Treaty, the Regulations and the Administrative Instructions under that Treaty. In case of discrepancy between these Notes and those requirements, the latter are applicable. For more detailed information, see also the PCT Applicant's Guide, a publication of WIPO.

in these Notes, "Article", "Rule", and "Section" refer to the provisions of the PCT, the PCT Regulations and the PCT Administrative Instructions respectively.

### **INSTRUCTIONS CONCERNING AMENDMENTS UNDER ARTICLE 19**

The applicant has, after having received the international search report, one opportunity to amend the claims of the international application. It should however be emphasized that, since all parts of the international application (claims, description and drawings) may be amended during the international preliminary examination procedure, there is usually no need to fife amendments of the claims under Article 19 except where, e.g. the applicant wants the latter to be published for the purposes of provisional protection or has another reason for amending the claims before international policiation. Furthermore, it should be emphasized that provisional protection is available in some States only.

#### What parts of the international application may be amended?

Under Article 19, only the claims may be amended.

During the international phase, the claims may also be amended (or further amended) under Article 34 before the International Preliminary Examining Authority. The description and drawings may only be amended under Article 34 before the International Examining Authority.

Upon entry into the national phase, all parts of the international application may be amended under Article 28 or, where applicable, Article 41.

### When?

Within 2 months from the date of transmittal of the international search report or 16 months from the priority date, whichever time limit expires later, it should be noted, however, that the amendments will be considered as having been received on time if they are received by the International Bureau after the expiration of the applicable time limit but before the completion of the technical preparations for international publication (Rule 48.1).

### Where not to file the amendments?

The amendments may only be filed with the International Bureau and not with the receiving Office or the International Searching Authority (Rule 45.2).

Where a demand for international preliminary examination has been its filed, see below.

### How?

Either by cancelling one or more entire claims, by adding one or more new claims or by amending the text of one or more of the claims as filed.

A replacement sheet must be submitted for each sheet of the claims which, on account of an amendment or smendments, differs from the sheet originally filed.

All the claims appearing on a replacement sheet must be numbered in Arabic numerals. Where a claim is cancelled, no renumbering of the other claims is required. In all cases where claims are renumbered, they must be renumbered consecutively (Administrative Instructions, Section 205(b)).

The amendments must be made in the language in which the international application is to be published.

### What documents must/may accompany the amendments?

Letter (Section 205(b)):

The amendments must be submitted with a letter.

The letter will not be published with the international application and the amended chalms. It should not be confused with the "Statement under Article 19(1)" (see below, under "Statement under Article 19(1)").

The letter must be in English or French, at the choice of the applicant. However, if the language of the international application is English, the letter must be in English; if the language of the international application is French, the letter must be in French.

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### NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled:
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

# The following examples (ijustrate the menner in which amendments must be explained in the accompanying lefter:

- [Where originally there were 48 claims and after amendment of some claims there are 51):
   "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the came numbers;
   claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- Where originally there were 15 claims and after amendment of all claims there are 11): "Claims 1 to 15 replaced by amended claims 1 to 11."
- (Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding new claims):
   "Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or
   "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."
- [Where various kinds of amendments are made];
   "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added."

#### "Statement under article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

it must be in the language in which the international appplication is to be published.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

### Consequence if a domand for international proliminary examination has already been filed

If, at the time of filing any amendments under Article 19, a demand for international proliminary examination has already been submitted, the applicant must preferably, at the same time of filing the amendments with the International Bureau, also file a copy of such amendments with the International Proliminary Examining Authority (see Rule 62.2(a), first sentence).

### Consequence with regard to translation of the international application for entry into the national phase

The applicant's attention is drawn to the fact that, where upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see Volume II of the PCT Applicant's Guide.

## PATENT COOPERATION TREATY

# **PCT**

### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER	see Form PCT/ISA/220				
APV/PB60599	ACTION	as well as, where applicable, item 5 below.				
International application No.	International filing date (day/month year) (Earliest) Prior		(Earliest) Priority Date (day/month/year)			
PCT/EP2004/013666	30/11/2004		02/12/2003			
Applicant						
GLAXO GROUP LIMITED						
This international Search Report has been prepared by this international Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the international Bureau.						
This international Search Report consists	of a total ofsho	ets.				
X It is also accompanied by	e copy of each prior art document o	ited in this	report.			
1. Basia of the report  a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.						
The International (his Authority (Rui	search was carried out on the basis e 23.1(b)).	of a transfe	ation of the international application furnished to			
b. With regard to any nucleo	rtide and/or amino acid sequence	disclosed	In the International application, see Box No. I.			
2. X Certain claims were four	nd unsearchable (See Box II).		1			
3. Unity of invention is lact	king (see Box III).					
4. With regard to the title,			,			
the text is approved as su	bmitted by the applicant.		İ			
X the text has been establis	hed by this Authority to read as folio	ws:	,			
A TETRAHYDROQUINOLINE DERIVATIVE FOR TREATING NICOTINE CRAVING						
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<ol><li>With regard to the abatract,</li></ol>						
X the text is approved as su	bmitted by the applicant.		*			
the text has been establisi	ned, according to Aule 38,2(b), by the	nis Authorit Ilonal searc	ty as it appears in Box No. IV. The applicant th report, submit comments to this Authority.			
With regard to the drawings,			;			
a. the figure of the drawings to be p	ublished with the abstract is Floure	No	<u> </u>			
as svogested by t		_				
as selected by this Authority, because the applicant falled to suggest a figure.						
as selected by this Authority, because this figure better characterizes the invention.						
b. none of the figures is to be	e published with the abstract.		'			

GW GLOBAL R&D IS
INTERNATIONAL SEARCH REPORT

NO. 1121 P. 5/7

International Application No PCT/EP2004/013666

A. CLASSI IPC 7	FICATION OF SUBJECT MATTER A61K31/4709 A61P25/34	,		
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According to	o International Patent Classification (IPC) or to both national classific	ation and IPC		
	SEARCHED			
IPC 7	ocumentation searched (classification system followed by classification A61K A61P	on symbols)		
Documenta	llon searched other then minimum documentation to the extent that s	auch documents a. 3 included in the Kelds so	carched	
Electronic d	ala base consulted during the International search (name of data ba	se and, where practical, search terms used	)	
EPO-In	ternal, WPI Data, CHEM ABS Data			
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT		<del> </del>	
Çalegory *	Citation of decument, with indication, where appropriate, of the rel	evant passages	Relevant to daim No.	
Х	WO 01/42238 A (GLAXO WELLCOME S.F	. Д.	1-4	
<b> </b> ^	ORLANDI, ALESSANDRA)	'	- •	
	14 June 2001 (2001-06-14) cited in the application	3		
,	page 4, line 7 - line 8	,		
	page 4, line 31 - line 32	`		
χ	WO 99/64411 A (GLAXO WELLCOME SPA	A; DI	1-4	
	FABIO, ROMANO)   16 December 1999 (1999-12-16)			
	cited in the application	,		
	page 11, line 2 - line 3			
	page 11, line 27 - line 28	1		
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	her documents are listed in the continuation of box C.	Palent family members are listed!	n annex.	
_		"T" later document published after the Inte or priority date and not in conflict with	the application but	
consid	eni delining the general state of the lart which is not lered to be of particular relevanco	cited to understand the principle or the Invention		
filing o	"E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention cannot be considered to			
which	ni Which may throw double on priority claim(s) or is cited to establish the publication date of another n or other special reason (as apacified)	Involve an inventive step when the do "Y" document of particular relevance; the control to particular relevance; the control to particular relevance.	laimed invention	
cannot be considered to involve an inventive step when the  'O' document referring to an oral disclosure, use, exhibition or document to combined with one or more other such document and the such combined with one or more other such documents, such combination being obvious to a person skilled			ore other such docu-	
'P' docume	ent published prior to the international filing date but	in the art.  *&* document member of the same patent		
	actual completion of the international search	Date of mailing of the international sea	<del> </del>	
1	5 March 2005	05/04/2005		
Name and r	nalling address of the ISA	Authorized officer		
	European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk	:		
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl. Fax: (+31-70) 340-3016  Büttner, U				

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# INTERNATIONAL SEARCH REPORT

International application No. PCT/EP2004/013666

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of first sheet)
; This international Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 3 and 4 are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple Inventions in this international application, as follows:
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i I
1. As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims: It is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

### INTERNATIONAL SEARCH REPORT

information on patent family members

International Application No PCT/EP2004/013666

Patent document cited in search report		Publication date		Patent family member(s)	Publication date	
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			CA	2393303 A		
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			CN	1311785 A 20004587 A		
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	NO 20006227 A 08-02-2001 NZ 508638 A 29-08-2003 OA 11564 A 24-05-2004 PL 344694 A1 19-11-2001 TR 200003652 T2 20-04-2001					
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